

Title (en)  
DIRECTIONAL ACOUSTIC SENSOR AND ELECTRONIC DEVICE INCLUDING THE SAME

Title (de)  
DIREKTIONALER AKUSTIKSENSOR UND ELEKTRONISCHE VORRICHTUNG DAMIT

Title (fr)  
CAPTEUR ACOUSTIQUE DIRECTIONNEL ET DISPOSITIF ÉLECTRONIQUE LE COMPRENANT

Publication  
**EP 3496420 A1 20190612 (EN)**

Application  
**EP 18210266 A 20181204**

Priority  
KR 20170166643 A 20171206

Abstract (en)  
Provided are a directional acoustic sensor that detects a direction of sound, a method of detecting a direction of sound, and an electronic device including the directional acoustic sensor. The directional acoustic sensor includes a sound inlet through which a sound is received, a sound outlet through which the sound received through the sound inlet is output, and a plurality of vibration bodies arranged between the sound inlet and the sound outlet, in which one or more of the plurality of vibration bodies selectively react to the sound received by the sound inlet according to a direction of the received sound.

IPC 8 full level  
**H04R 1/40** (2006.01); **H04R 1/24** (2006.01); **H04R 17/02** (2006.01)

CPC (source: EP KR US)  
**B60K 35/00** (2013.01 - US); **B60R 16/02** (2013.01 - KR); **G01H 1/04** (2013.01 - KR); **G06F 3/167** (2013.01 - US); **G10L 21/0216** (2013.01 - US); **H04R 1/245** (2013.01 - EP US); **H04R 1/323** (2013.01 - US); **H04R 1/406** (2013.01 - EP US); **H04R 5/04** (2013.01 - US); **H04S 7/30** (2013.01 - US); **B60K 35/10** (2024.01 - US); **B60K 2360/148** (2024.01 - US); **G10L 2021/02165** (2013.01 - US); **H04R 17/02** (2013.01 - EP US); **H04R 17/025** (2013.01 - EP US); **H04R 2201/003** (2013.01 - EP US); **H04R 2201/401** (2013.01 - EP US); **H04S 2400/01** (2013.01 - US)

Citation (search report)  
• [XYI] US 2014084395 A1 20140327 - SPARKS ANDREW [US], et al  
• [XAYI] EP 2884762 A1 20150617 - THALES HOLDINGS UK PLC [GB]  
• [YA] EP 2986024 A1 20160217 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3496420 A1 20190612**; **EP 3496420 B1 20210825**; CN 109884579 A 20190614; CN 109884579 B 20240419; JP 2019103144 A 20190624; JP 7300265 B2 20230629; KR 102452952 B1 20221012; KR 20190067289 A 20190617; US 11039262 B2 20210615; US 11540077 B2 20221227; US 2019174244 A1 20190606; US 2021329395 A1 20211021

DOCDB simple family (application)  
**EP 18210266 A 20181204**; CN 201811226321 A 20181019; JP 2018228331 A 20181205; KR 20170166643 A 20171206; US 201816162795 A 20181017; US 202117320988 A 20210514